

Notice of Allowability

Application No.

09/933,781

Examiner

ALEXANDER BOAKYE

Applicant(s)

WANG ET AL.

Art Unit

2667

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/04/05.
2. ☒ The allowed claim(s) is/are 2,3,4,5,6,8,9,10,11,13,14,15,16,17,18,19,20,21,22,23; renumbered as 1-20 respectively.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance:

Claims 2, 3, 4, 5, 6, 8, 9, 10, 11, 13, 14, 15, 16, 17 and 18-23 are considered allowable since when reading the claims in light of the specification, none of the reference of record alone or in combination disclose or suggest the combination of limitations specified in the independent claims. As to claims 2 and 3, the prior art of record does not teach wherein a user profile contains at least a unique WAP gateway IP address, NAS (Network Access Server) dialup number, and user. As to claims 4 and 5, the prior art of record does not teach a service selection management program coupled to the controller, wherein the controller provides service selection information to the service selection management program and the service selection management program communicates with the mobile user device to allow service selections to be dynamically changed while a wireless session is being conducted, and wherein subscriber identifiers and other parameters are placed into the wireless requests to identify the changing service requirements.

As to claim 6, the prior art of record does not teach a service selection management program coupled to the controller, wherein the controller provides service selection information to the service selection management program to allow the operator to dynamically establish differentiated revenue models with tiered service based

on one or more of a geo-position of the mobile user device, data packet quality of service (QoS), transport security settings, network loading or prioritized resource utilization levels. As to claims 8-11, the prior art of record does not teach a service selection management program coupled to the controller; and a plurality of wireless gateways that handle wireless requests and are connected between the controller and the one or more servers wherein the service selection management program monitors information associated with a wireless session to determine selectively which wireless gateway is to process that wireless session.

As to claim 13, the prior art of record does not teach wherein each routing entry contains all of: a device address and port, a gateway address, a subscriber ID, a quality of service parameter, and assigned proxy port and charging parameters ordered linked list; hash table. As to claim 14, the prior art of record does not teach wherein the table is a hash table and the routing entries are connected as a serial ordered linked lists when more than one routing entry is associated with a single table entry. As to claim 15, the prior art of record does not teach wherein a wireless device user can dynamically change one or more of the entries of their routing entry while in session. As to claim 16, the prior art of record does not teach wherein the routing table represents a mapping of the subscriber to a current WAP gateway of the choice wherein that WAP gateway may be changed by changing information in the routing table.

As to claim 17, the prior art of record does not teach wherein the routing table represents the service profile or service level associated with a WAP gateway and a subscriber's individual security and priority profile/level wherein this information may be

dynamically changed by the subscriber. As to claims 18-22, the prior art of record does not teach worker threads for processing requests received through the input routine and either obtaining data from external gateway in response to the requests or providing requests to a service management module to process service selection for the wireless device; a routing table for use by the worker threads when processing requests; and drive page threads for providing data back to wireless devices in response to processed requests.

As to claim 23, the prior art of record does not teach fixing a static address within a mobile device; receiving, in a foreign network, a request from the mobile device where the request is associated with the static IP address; forwarding the request from the foreign network to a wireless gateway within the home network using the static IP address; and processing, within the home network, the request using parameters and service settings stored within the home network. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Boakye whose telephone number is (571) 272-3183. The examiner can normally be reached on M-F from 8:30am to 6:00pm.

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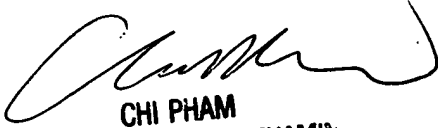
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham, can be reached on (571) 272-3179. The Central Fax number is (571) 273-8300. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Electronic Business Center numbers 866-217-9197 and 703-305-3028.

Alexander Boakye

Patent number

AB

07/10/05


CHI PHAM
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2667
4/14/05